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OHIO AGRICULTURAL R & D CENTER
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SWEET CORN VARIETY TRIALS - 1967

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER
Lane Avenue Branch, Columbus, Ohio

WALTER N. BROWN

DEPARTMENT OF HORTICULTURE

Ohio Agricultural Research and Development Center
Wooster, Ohio

Horticulture Mimeograph Series No. 342, January 30, 1968

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Department of Horticulture Mimeograph Series No. 342
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SWEET CORN VARIETY TRIALS - 1967
Columbus, Ohio

Walter N. Brown*

In the 1967 sweet corn evaluation trials at Columbus, 98 varieties were planted June 14 in single row plots replicated five times. Each plot consisted of 21 hills spaced 18" in rows 36" apart. Four kernels per hill were planted by hand jabber. Stand counts were made at the 2-3 true-leaf stage to determine germination and missing hills. Later seedlings were thinned to two plants per hill permitting a maximum stand of 19,360 plants per acre. Fallow land was plowed down and 1000 lbs./A of 12-12-12 was drilled and disked in prior to planting. Immediately after planting, Simazine (2½ lb./25 gal.) was applied. Plants were sprayed for control of flea beetle with DDT on June 21, no control of corn borer, or corn ear worm. First harvest was made on August 16, and the last on September 8, 1967.

For the yield records only, marketable size ears were included. No treatment for ear worm was used since it was desired to evaluate the inherent ear worm resistance. It was assumed that insects could have been controlled by the use of suitable treatments.

The symbols and rating systems used are as follows:

Average Depth of Kernel - Average length of 3 kernels from center section of three ears selected at random from each plot.
Color of Kernel - L-light, M-medium, D-dark; Y-yellow, W-white; B-bright, I-intermediate, D-dull; MIX-mixed yellow and white.
Ease of Snapping: 1-very difficult to 5-easily snapped.
Shanks: 1-long, over 6 inches, to 5-short, one inch or less.
Flag Length: 1-less than two inches to 5-over eight inches.
Flag Number: 1-none to 5-over eight.
Tip Cover: 1-exposed to 5-long, extending 3 inches or more.
Silk Color: 1-dark brown to 5-clear or white.
Husk Tightness: 1-loose to 5 tight.
General Uniformity: 1-poor to 5-excellent.

SOURCE OF SEED

Code

A-2	Asgrow Seed Company, Orange, Conn. 06477
B-1	W. Atlee Burpee & Co., P. O. Box 6929, Philadelphia, Pa. 19132
F-1	Ferry-Morse Seed Co., P. O. Box 398, Racine, Wisc. 53401
G-1	Gill Bros. Seed Co., Montavilla Station, Portland, Oregon 97216
H-1	Joseph Harris Co., Inc., Moreton Farm, Rochester, N.Y. 14624
H-2	The Holmes Seed Co., 2125 46th St., N.W., Canton, Ohio 44709
L-2	Letherman Seed Co., 501 McKinley Avenue, N.W., Canton, Ohio 44702
N-1	Northrup-King & Co., 1500 Jackson St., N.E., Minneapolis, Minn. 55413
R-1	Robson Quality Seeds, Inc., Holl, N. Y. 14463
S-1	Stokes Seeds, Ltd., Box 15, 86-88 Exchange St., Buffalo, N.Y. 14205

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GENERAL COMMENTS

Temparatures were slightly below normal for June, normal for July, and slightly below normal for August. Rainfall was about 2.0" below normal for June and normal for July, and below normal for August; overhead irrigation was used as needed. All varieties required fewer calander days to mature because of the late planting date.

Mean temperatures and rainfall recorded at University Farm, Columbus, are given below:

	<u>Mean Temperature</u>	<u>Rainfall</u>
June 14-30	72.8° F.	1.44"
July	72.9°	3.56"
August	70.5°	2.36"
September 1-8	64.1°	0.00"

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Columbus, Ohio

(6 Replications)

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